RRR RRR RRR RRR	RRR RRR RRR RRR RRR			NNN NNN NNN NNN NNN NNN NNN NNN NNN NN	NN NNN NNNNNN NNNNNN NNNNNN NNNNNN	000000000 0000000000 000 000 000 000 0	000 000 000 000 000 000 000 000 000 00	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
							000		
		UUU	UUU	NNN	NNN	000	000	FFF	FFF
RRR RRR		UUU	UUU	NNN	NNN	000	000	FFF	FFF
RRR RRR		UUU	UUU	NNN	NNN	000	000	FFF	FFF
	RRR	UUUUUUUUUUU		NMN	NNN	000000000		FFF	FFF
	RRR	UUUUUUUUUUU		NNN	NNH	00000000		FFF	FFF
RRR	RRR	UUUUUUUUUUU	UUUU	NNN	NNN	000000000	)	FFF	FFF

\_\$2

RRRRRRRR RR RR RR RR RR RR RR RR RRRRRRR	RRRRRRRR RR RR RR RR RR RR RR RR RRRRRRR	000000 00 00 00 00	RRRRRRRR RR
	\$\$\$\$\$\$\$\$\$ \$		
	\$\$ \$\$\$\$\$\$\$ \$\$\$\$\$\$\$ \$\$ \$\$ \$\$		
	\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$		

89012345678901234567890123456789012345

ERROR V04-000	Field (error) messag Revision History	requests from other modul 16-Sep-1984 00:25:59 14-Sep-1984 13:06:10	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER: [RUNOFF.SRC]ERROR.BLI:1 (2)
47 48 49 50	0046 1 %SBTTL 'Revi 0047 1 0048 1   MODIFIED B 0049 1 0050 1   014		
51 52 53	0050 1 014 0051 1 0052 1 0053 1 0	KAD00014 Keith Dawson 3-May-1983 Support suppression on counting new error mess PC3, PC4, PC5, CRU, CR1, CR2).	ages: RNFPC2,
52 53 55 55 57 55 57 55 57	0054 1 013 0055 1 0056 1 0057 1 0058 1	KAD00013 Keith Dawson 11-Apr-1983 Support new termination messages (RNFPC2, PC3, information written to the .BRN file (and fo referencing, also read from the input .BRN f here is the addition of two new %chars:	PC4, PC5) for r DSRPLUS cross- ile). The support
61 62	0060 1 ! 0061 1 !	%A ==> spec of old (input) .BRN file %B ==> spec of new (output) .BRN file	
58 59 60 61 62 63 64 65 667 68	0057 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RER00012 Ron Randall 07-Mar-1983 Global edit of all modules. Updated module nam copyright dates. Changed require files to BLIS	es, idents, S library.

```
ERROR
                           Field (error) message requests from other modul 16-Sep-1984 00:25:59 Module Level Declarations 14-Sep-1984 13:06:10
                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1
V04-000
                           0069
0070
0071
0072
0073
0074
    XSBITL 'Module Level Declarations'
                                           TABLE OF CONTENTS:
                                        FORWARD ROUTINE
                                                      erm:
                                                                    NOVALUE,
                                                                                                  Error message writer
                                                     erm: NOVALUE, Error message writer Report error, text of command, & where found ermb: NOVALUE, Report error, input text line, & where found erme: NOVALUE, Report error extended (w/secondary message) Report error & where in the text it was found erms: NOVALUE, Report error with numeric param & where found erms: NOVALUE, Report error with string param & where found putmsg: NOVALUE, Miscellaneous messages writer Do text insertion.

report_secondary_message;! Fetch and report secondary error message
                           0076
                           0077
                           0078
                           0079
                           0080
                           0081
0082
0083
                           0085
                           0086
                           0087
0088
                                            INCLUDE FILES:
                           0089
                                        LIBRARY 'NXPORT: XPORT':
                                                                                                             ! XPORT Library
                           0090
                                        REQUIRE 'REQ: RNODEF':
                                                                                                             ! RUNOFF variant definitions
                                        XIF DSRPLUS XTHEN
LIBRARY 'REQ:DPLLIB';
                                                                                                            ! DSRPLUS BLISS Library
                                        XELSE.
                                        LIBRARY 'REQ:DSRLIB';
                                                                                                            ! DSR BLISS Library
                                           OWN STORAGE:
                                        LITERAL work_buffer_size = 500;
                          0232
0233
0235
0236
0237
0238
0241
0242
0243
                                               work_buffer : VECTOR [CH$ALLOCATION (work_buffer_size)],
                                                                                                                          ! Module wide character buffer
                                               work_desc : $STR_DESCRIPTOR (
                                                                                                                                 & associated string desc.
                                                                                   CLASS=FIXED
                                                                                 ,STRING = (work_buffer size
,CH$PTR (work_buffer) ) );
    112
113
114
115
116
117
118
119
120
122
123
124
127
                                        OWN
                                               w_buffer1 :
                                                                                                                          ! Module wide character buffer
                                                      VECTOR [CH$ALLOCATION (130)],
                                               w_desc1 : $STR_DESCRIPTOR (
                                                                                                                                 & associated string desc.
                                                                                 CLASS=FIXED
                          0245
0246
                                                                                 ,STRING = (130
                                                                                  ,CHSPTR(w_buffer1)));
                                            EXTERNAL REFERENCES:
                                        EXTERNAL
                                                                  gca_definition,
fixed_string,
irac_definition,
irac_definition,
! Vector of CH$PTRs to RUNOFF's messages.
                                                      gca:
                                                       ira:
                                                      irac:
                                                      msgtxt: VECTOR.
```

```
Field (error) message requests from other modul 16-Sep-1984 00:25:59 Module Level Declarations 14-Sep-1984 13:06:10
ERROR
V04-000
                                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI:1
                                    pagen: page_definition,
phan: phan_definition,
rnoiob: REF $XPO_IOB (),! Output file (document being built)
%IF DSRPLUS %THEN
                     123901234567890123445678901234
                                                 brniob: $XPO_IOB (),! Input .BRN file
                                     MFI
                                                 brnoob: $XPO_IOB (),! Output .BRN file
                                                 semcod,
ttoiob: $XPO_IOB (),
tteiob: $XPO_IOB ();
                                                                                      ! Secondary error message code
! Standard messages (TTY: usually)
! Standard error unit (TTY: usually)
                                    EXTERNAL LITERAL :Error messages rnfloc; ! I - on output page %P; on input line %C of page %I of file '%F"
                                     EXTERNAL ROUTINE
                                                 endcmt,
                                                                                         Skip to end of comment
Convert binary to specified base
                                                 pacbas.
                                                                                       ! Convert page number to ASCII
! Move ASCII characters.
                                                 pacpag.
                                                 pacstr,
                                    XIF XBLISS(BLISS32) XTHEN
                                                                                       ! System routine to fetch message text ! Error message handler for VMS
                                                 sys$getmsg.
                                                 emsg;
                                    XELSE
                                                 xpo$xmsq:
                                                                                       ! XPORT's routine to fetch its msg. text
                                     ZFI
```

: R

```
ERROR
                          Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERMA -- add DIRECTIVE and location to error mes 14-Sep-1984 13:06:10
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER: [RUNOFF.SRC]ERROR.BLI:1
V04-000
                                       %SBTTL 'ERMA -- add DIRECTIVE and Location to error message' GLOBAL ROUTINE erma (error, position) : NOVALUE =
    FUNCTIONAL DESCRIPTION:
                                                    This routine contains a sequence of code that is commonly used for handling errors.
                                                   If the POSITION parameter is TRUE, it calls ENDCMT to position to the end of the erroneous command. Then it passes to ERM the specified error message (ERROR), and the start and length of the string to be inserted into the error message. Note that this call on ERM does not depend on the value of POSITION.
                                                    Finally, it calls ERM to output the error message indicating where in the input and output files the error occurred.
                                                    It is by no means necessary to call ERM only via ERMA. ERMA is simply a collection of commonly used code and is here for the
                                                    sake of convenience.
                                          FORMAL PARAMETERS:
                                                    ERROR - Address of desired error diagnostic. Passed to ERM.
                                                    POSITION - If TRUE, ERMA positions to the end of the
                                                                      command before issuing the second call on ERM.
                                          IMPLICIT INPUTS:
                                                    RNFLOC - An error message stating where error occurred GCA_COM_START - A ch$ptr to the start of the command FS_NEXT (IRA) - A ch$ptr to the character after the last one
                          0316
                                                                              in the command
                                          IMPLICIT OUTPUTS:
                                                                              None
                          0319
                                          ROUTINE VALUE:
                                          COMPLETION CODES:
                                                                              None
                                          SIDE EFFECTS:
                                                                              None
                                             BEGIN
                                             IF .position THEN
                                                                              ! Position to end of command.
                                                    endcmt ();
                                             erm (.error, .gca_com_start, CH$DIFF (.fs_next (ira), .gca_com_start));
erm (rnfloc, 0, 0);
                                                                              ! End of ERMA
                                              END:
                                                                                                                                     ERROR Field (error) message requests from other
                                                                                                                         .IDENT \V04-000\
```

```
ERROR
                                Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERMA -- add DIRECTIVE and location to error mes 14-Sep-1984 13:06:10
                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [RUNOFF.SRC]ERROR.BLI:1
V04-000
                                                                                                                                                    .PSECT SOWNS, NOEXE, 2
                                                                                                                        00000 WORK_BUFFER:
                                                                                                                                                                    500
                                                                                                           01F4 001F4 WORK_DESC:
                                                                                                                                                     .WORD 500
.BYTE 14. 1
.ADDRESS WORK_BUFFER
                                                                                                                       001F6 .BY
001F8 AD
001FC W_BUFFER1:
                                                                                                    01 OE
                                                                                                                                                                   132
130
14, 1
                                                                                                                       00280 W_DESC1: WORD
00282
00284 .ADDRE
                                                                                                   00000000°
                                                                                                                                                    .ADDRESS W_BUFFER1
                                                                                                                                                                   GCA, IRA, IRAC, MSGTXT
PAGÉN, PHAN, RNOIOB
BRNOOB, SEMCOD, TTOIOB
TTEIOB, RNFLOC, ENDCMT
PACBAS, PACPAG, PACSTR
SYS$GETMSG, EMSG
                                                                                                                                                     .EXTRN
                                                                                                                                                     .EXTRN
                                                                                                                                                     .EXTRN
                                                                                                                                                     .EXTRN
                                                                                                                                                     .EXTRN
                                                                                                                                                    .PSECT
                                                                                                                                                                   $CODE$, NOWRT, 2
                                                                                                             000C 00000

9E 00002

9E 00009

E9 00010

FB 00014

C3 0001B 1$:

DD 00023

DD 00025

FB 00028

7C 0002B

DD 0002D

FB 00033

04 00036
                                                                                                                                                                   ERMA, Save R2,R3
ERM, R3
GCA, R2
POSITION, 1$
#0, ENDCMT
GCA, IRA+4, -(SP)
GCA
                                                                                                                                                                                                                                                                0284
                                                                                                                                                     .ENTRY
                                                                                    00000000v
                                                                                                                                                    MOVAB
                                                                                    000000006
                                                                                                                                                    MOVAB
                                                                                                         EFC0022C3
                                                                                                                                                                                                                                                                0328
0330
0332
                                                                                                                                                    BLBC
                                                                                                                                                   CALLS
SUBL3
PUSHL
PUSHL
CALLS
CLRQ
PUSHL
                                                 7E 00000000G
                                                                                                                                                                   ERROR
#3, ERM
-(SP)
                                                                                                04
                                                                                                                                                                                                                                                                0333
                                                                                    00000000G
                                                                                                                                                                    #RNFLOC
                                                                                                                                                    CALLS
                                                                                                                                                                   #3, ERM
                                                                                                                                                                                                                                                                0334
```

; Routine Size: 55 bytes, Routine Base: \$CODE\$ + 0000

208 0335 1

: R

ERRI

V04

```
ERROR
                            Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERMB -- add input text & location to error mess 14-Sep-1984 13:06:10
                                                                                                                                                            VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER: [RUNOFF.SRC]ERROR.BLI; 1
                                                                                                                                                                                                                            Page
V04-000
                                          %SBTTL 'ERMB -- add input text & location to error message' GLOBAL ROUTINE ermb (error, position) : NOVALUE =
     FUNCTIONAL DESCRIPTION:
                                                         This routine contains a sequence of code that is commonly used
                                                         for handling errors.
                                                         Processing is like ERMA except that the entire input line is displayed rather than just a command.
                                                        If the POSITION parameter is TRUE, it calls ENDCMT to position to the end of the erroneous command. It always passes to ERM the specified error message (ERROR), and the start and length of the string to be inserted into the error message. Note that this call on ERM does not depend on the value of POSITION.
                                                        Finally, it calls ERM to output the error message indicating where in the input and output files the error occurred.
                                              FORMAL PARAMETERS:
                                                         ERROR - Address of desired error diagnostic. Passed to ERM.
                            0360
0361
0362
0363
0364
0365
0366
0369
0370
0371
                                                         POSITION - If TRUE, ERMA positions to the end of the
                                                                            command before issuing the second call on ERM.
                                              IMPLICIT INPUTS:
                                                        RNFLOC - An error message stating where error occurred FS_START (IRA) - A ch$ptr to the start of the input line. FS_MAXSIZE (IRA) - The total size of the input line.
                                              IMPLICIT OUTPUTS:
                                                                                     None
                                              ROUTINE VALUE:
COMPLETION CODES:
                            0372
0373
0374
0375
0376
0377
0378
0379
0380
                                                                                     None
                                             SIDE EFFECTS:
                                                                                     None
                                                 BEGIN
                                                  If .position
                                                        endcmt ():
                                                                                     ! Position to end of command.
                                                 erm (.error, .fs_start (ira), .fs_maxsize (ira)); erm (rnfloc, 0, 0);
                                                  END:
                                                                                     ! End of ERMB
```

ERROR VO4-000	Field (error) message ERMB add input text	requests from	other modu	K 2 16-Sep-198 s 14-Sep-198	4 90:25	VAX-11 BLiss-32	V4.0-742 [RUNOFF.SRCJERROR.BLI;1 (5
	0000000G	07 EF 0000000006 000000006 62 000000006	AC E9 00 00 FB 00 EF DD 00 EF DD 00 AC DD 00 03 FB 00 04 00	009 000 014 1\$: 018 020 023 026 028 028	BLBC CALLS PUSHL PUSHL CALLS CLRQ PUSHL CALLS RET	POSITION, 1\$ NO, ENDCMT IRA+8 IRA ERROR N3, ERM -(\$P) WRNFLOC N3, ERM	0379 038 038 038

; Routine Size: 50 bytes, Routine Base: \$CODE\$ + 0037

; 260 0386 1

```
ERROR
V04-000
                           Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERME -- report message w/secondary message 14-Sep-1984 13:06:10
                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [RUNOFF.SRC]ERROR.BLI; 1
                                         %SBTTL 'ERME -- report message w/secondary message'
GLOBAL ROUTINE erme (error, arg, len, msgcode) : NOVALUE =
    FUNCTIONAL DESCRIPTION:
                                                       This routine will report the message as passed and then print a second informational line based on the passed message code (msgcode).
                           0394
0395
0396
0397
0398
0400
0401
0402
0403
                                            FORMAL PARAMETERS:
                                                                   Address of desired error diagnostic. Passed to ERM. A CH$PTR to the string to be output. The length of the string.

- Error message code for the secondary error message.
                                                       ERROR -
                                                      ARG -
LEN -
                                                       MSGCODE
                                            IMPLICIT INPUTS:
                                                                                  None
                                            IMPLICIT OUTPUTS:
                                                                                  None
                           0406
0407
                                            ROUTINE VALUE:
                           0408
0409
0410
0411
0412
0413
0414
0415
                                            COMPLETION CODES:
                                                                                  None
                                            SIDE EFFECTS:
                                                                                  None
                                                BEGIN
                                                erm (.error, .arg, .len);
                                               report_secondary_message (.msgcode);
END; ! End of ERMS
                                                                                                                                            ERME, Save nothing ARG, -(SP) ERROR #3, ERM MSGCODE
                                                                                              0000
                                                                                                      00000
                                                                                                                               .ENTRY
                                                                                                                                                                                                                           0388
                                                                                  08
                                                                  7E
                                                                                                      00002
                                                                                                  70
                                                                                                                               PVOM
                                                                                          AC
03
AC
01
                                                                                                      00006
                                                                                                 DD
                                                                                                                               PUSHL
                                                                                                 FB
DD
FB
                                                00000000V
                                                                                                                               CALLS
                                                                                  10
                                                                                                      00010
                                                                                                                               PUSHL
                                                                                                                                                                                                                           0415
                                                                                                                               CALLS
                                                00000000V
                                                                                                       00013
                                                                                                                                            #1, REPORT_SECONDARY_MESSAGE
```

0001A

ERRC VO4-

0416

; Routine Size: 27 bytes. Routine Base: \$CODE\$ + 0069

292 0417 1

```
ERROR
                        Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERML -- add location to error message without a 14-Sep-1984 13:06:10
                                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI:1
V04-000
                                     %SBTTL 'ERML -- add location to error message without additional data' GLOBAL ROUTINE erml (error) : MOVALUE =
   2999990123456789012345678
2999990123456789012345678
                                        FUNCTIONAL DESCRIPTION:
                                                  This routine contains a sequence of code that is commonly used
                                                  for handling errors.
                                                 ERML is just a shortcut for the following calls:

ERM (.ERROR, 0, 0);

ERM (RNFLOC, 0, 0);

In other words, it saves code.
                                        FORMAL PARAMFTERS:
                                                 ERROR - Address of desired error diagnostic. Passed to ERM.
                                        IMPLICIT INPUTS:
                                                 RNFLOC - An error message stating where error occurred
                                        IMPLICIT OUTPUTS:
                                                                          None
                                        ROUTINE VALUE:
COMPLETION CODES:
                                                                           None
                        0446
                                        SIDE EFFECTS:
                                                                          None
                        0448
0449
0450
0451
0452
                                           BEGIN
                                           erm (.error, 0, 0);
erm (rnfloc, 0, 0);
                                                                          ! End of ERML
                                           END:
                                                                                                                               ERML, Save R2
ERM, R2
-(SP)
                                                                                             00000
                                                                                                                   .ENTRY
                                                                                                                                                                                                       0419
                                                                                             00002
00009
0000B
0000E
00011
00013
                                                                                                                   MOVAB
                                                            52 00000000V
                                                                                                                   CLR2
PUSHL
CALLS
CLRQ
PUSHL
                                                                                                                                                                                                       0450
                                                                                                                               ERROR
#3. ERM
-(SP)
                                                                                        DD
                                                                                        FB
7C
                                                                                                                                                                                                       0451
                                                                                        DD
                                                                 00000000G
                                                                                                                               #RNF LOC
                                                                                                                   CALLS
                                                                                                                               #3, ERM
                                                                                             0001C
                                                                                                                                                                                                       0452
```

; Routine Size: 29 bytes, Routine Base: \$CODE\$ + 0084

329 0453 1

```
Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERMN -- add location to error message w/numeric 14-Sep-1984 13:06:10
ERROR
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page 11 DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (8)
V04-000
                                   **SBTTL 'ERMN -- add location to error message w/numeric data' GLOBAL ROUTINE ermn (error, arg) : NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                               This routine contains a sequence of code that is commonly used for handling errors.
                                               The code is straightforward. It is mainly a code-saver.
                       0465
0466
0466
0467
0467
0471
0472
0475
0475
0476
0481
0482
0483
                                      FORMAL PARAMETERS:
                                               ERROR - Address of desired error diagnostic. Passed to ERM. ARG - A number to be output.
                                      IMPLICIT INPUTS:
                                               RNFLOC - An error message stating where error occurred
                                      IMPLICIT OUTPUTS:
                                                                       None
                                      ROUTINE VALUE:
COMPLETION CODES:
                                                                       None
                                      SIDE EFFECTS:
                                                                       None
                                         BEGIN
                                         erm (.error, arg. 0);
erm (rnfloc, 0, 0);
                                                                      ! End of ERMN
                                         END:
```

52	00000000v	EF	9E 000	00 ENTRY 002 MOVAB	ERMN, Save R2	: 0455
26	00000000	7E	04 000	009 CLRL	ERM, R2 -(SP)	0484
7E 62	04	AC	7D 000	OB MOVO	ERROR, -(SP)	
62		AC 03 7E 8F 03	FB 000 7C 000	OOF CALLS 012 CLRQ 014 PUSHL 01A CALLS	#3, EŘM -(ŠP)	0485
	00000000	8F	7C 000 DD 000 FB 000	14 PUSHL	#RNFLOC	0403
62		03	FB 000	TA CALLS	#3, ERA	0/84
			04 000	OID RET		0486

ERRO VO4-

; Routine Size: 30 bytes, Routine Base: \$CODE\$ + 00A1

; 364 0487 1

```
ERROR
                     Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERMS -- add location to error message w/string 14-Sep-1984 13:06:10
                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1
V04-000
                               %SBTTL 'ERMS -- add location to error message w/string data' GLOBAL ROUTINE erms (error, arg, len) : NOVALUE =
                    FUNCTIONAL DESCRIPTION:
                                          This routine contains a sequence of code that is commonly used
                                          for handling errors.
                                          The code is straightforward. It is mainly a code-saver.
                                  FORMAL PARAMETERS:
                                          ERROR - Address of desired error diagnostic. Passed to ERM.
                                          ARG -
                                                    A CHSPIR to the string to be output.
                                          LEN -
                                                    The length of the string.
                                  IMPLICIT INPUTS:
                                          RNFLOC - An error message stating where error occurred
                                  IMPLICIT OUTPUTS:
                                                               None
                                  ROUTINE VALUE:
                                  COMPLETION CODES:
                                                               None
                                 SIDE EFFECTS:
                                                               None
                                    BEGIN
                                    erm (.error, .arg, .len);
erm (rnfloc, 0, 0);
                                     END:
                                                               ! End of ERMS
                                                                        0004 00000
9E 00002
7D 00009
DD 0000D
                                                                                                  ENTRY
                                                                                                           ERMS, Save R2
ERM, R2
                                                                                                                                                                        0489
                                                   52
7E
                                                       V00000000V
                                                                                                 MOVAB
                                                                                                           ARG, -(SP)
ERROR
                                                                                                                                                                        0519
                                                                     AC 03 7 8 5 3
                                                                                                 DVOM
                                                                              00000
00010
00013
                                                                                                 PUSHL
                                                                          FB
7C
DD
                                                                                                           #3, ERM
-(SP)
                                                                                                 CALLS
                                                                                                                                                                        0520
                                                                              00015
0001B
                                                                                                           WRNFLOC
W3, ERM
                                                       0000000G
                                                                                                 PUSHL
                                                                                                 CALLS
                                                                               0001E
                                                                                                 RET
                                                                                                                                                                        0521
```

ERI

; Routine Size: 31 bytes, Routine Base: \$CODE\$ + 00Bf

400 0522 1

```
Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERM -- funnel message to appropriate error outp 14-Sep-1984 13:06:10
ERROR
                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742 Page 13 DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (10)
V04-000
                                               **SBTTL 'ERM -- funnel message to appropriate error output mechinism' GLOBAL ROUTINE erm (error, arg, len) : NOVALUE =
     0523
0525
0527
0527
0528
0533
0533
                                                  FUNCTIONAL DESCRIPTION:
                                                              This routine generates and prints the requested error diagnostic. The first routine argument points to an error string consisting of a string intermixed with special formatting flags which cause special actions to happen to the string when a flag is encountered. The routine SCNMSG is called to expand the error message
                               0534
0535
0536
0537
0538
0539
0541
0542
0544
0544
0544
0544
                                                               before it is output.
                                                  FORMAL PARAMETERS:
                                                              ERROR - Pointer to the desired error diagnostic.

ARG - Contains a value if it is to be used with %N;

contains a pointer to a string if it is to be used with %S.
                                                                      - Unused with %N, Contains the string length for %S.
                                                              All parameters are 'pass through' parameters for SCNMSG.
                                                   IMPLICIT INPUTS:
                                                                                              None
                                                   IMPLICIT OUTPUTS:
                                                                                              - Set to TRUE to indicate an error occurred - Count of lines of error messages
                                                               GCA FEHLER
                               0550
                                                              GCA_ERRCNT
                               0551
0552
0553
0554
0555
0556
0557
0558
0559
                                                   ROUTINE VALUE:
                                                   COMPLETION CODES:
                                                                                              None
                                                  SIDE EFFECTS:
                                                                                              None
                                                       BEGIN
                                                                                         !Error messages previously undeclaired
See command on input line %C of page %I of file "%S"
DSR(PLUS) Version %V: %N diagnostic message%% reported
Another %N crossed margin or bad right indent attempt%% detected and accumulated.
DSR(PLUS) Version %V: No errors detected
Another %N negative indent%% detected and accumulated. Now being reported
                                                       EXTERNAL LITERAL
                               0560
                                                              rnfbak.
     440
                               0561
                                                               rnferd,
                                                              rnfmrc.
                                0563
                                                              rnfned.
                               0564
                                                               rnfnic,
                                                                                         Illegal message: rnfpc1
XN pageXX written to 'X0'
     4445
4446
4448
4450
4455
4456
4567
458
                               0565
                                                               rnfpc1.
                               0566
                                                              rnfpct.
                               0567
                                                               rnfstr,
                              0568
0569
0570
                                               XIF DSRPLUS XTHEN
                                                               rnfpc4.
                                                                                  IN cross-reference recordIX written to IB
                                                                                  XN cross-reference recordXX read from XA
                                                              rnfpc5.
                                                                                  One or more forward cross-references could not be resolved Run DSRPLUS again if you need them correct Or run DSRPLUS/DEBUG to see which one(s) changed
                               0571
                                                              rnfcru,
                               0572
0573
                                                              rnfcr1.
                                                              rnfcr2.
                                0574
                                               XF I
                               0575
0576
                                                                                  IN indexing recordIX written to IB
IN table-of-contents recordIX written to IB
                                                              rnfpc3;
                                                       LITERAL
                                                                              e_number_mask = %x'7ff8':
```

ERI VO

```
ERROR
                    Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERM -- funnel message to appropriate error outp 14-Sep-1984 13:06:10
                                                                                                                VAX-11 Bliss-32 V4.0-742 Page 14 DISK$VMSMASTER: [RUNOFF.SRC]ERROR.BLI;1 (10)
V04-000
   line_cnt,
e_number,
                                                                                            !Size of output line
                                                                                             error number
                                         status;
                                                                                            Status code returned by XPORT
                    0585
0585
0586
05587
05589
05595
05596
05596
05597
05597
0601
0603
                              #IF #BLISS(BLISS32) #THEN
                                    ! Initialize message string descriptor:
                                   work_desc [str$b_dtype] = str$k_dtype_t;
work_desc [str$b_class] = str$k_class f;
work_desc [str$a_pointer] = work_buffer [0];
                                                                                              ASCII text (8-bit)
                                                                                              Scalar, String Descriptor
! First byte of char. buffer
                              XF 1
                                    e_number = (.error AND e_number mask)/8;
                                    !Count every real error message
                                              .error NEQ rnfbak
                                             .error NEQ rnferd
                                             .error NEQ rnfloc
                                             .error NEQ rnfmrc
                                                                          The parameter passed will be added in later.
                                             .error NEQ rnfnic
                                                                        ! The parameter passed will be added in later.
                                         AND
                                             .error NEQ rnfned
                                         AND
                                             .error NEQ rnfpct
                                             .error NEQ rnfpc1
                                         AND
                                         AND .error NEQ rnfpc2
                    0604
                                         AND
                                              .error NEQ rnfpc3
                 U 0605
U 0606
U 0607
U 0608
U 0609
                              XIF DSRPLUS XTHEN
                                         AND
                                             .error NEQ rnfpc4
                                             .error NEQ rnfpc5
                                         AND
                                             .error NEQ rnfcru
                    0609
0610
                                         AND .error NEQ rnfcr1
                                         AND .error NEQ rnfcr2
                    0611
0612
0613
0614
0615
0616
0616
0617
0618
0621
0623
0624
0623
0624
0623
0633
0633
0633
0633
                              XF I
                                         AND .error NEQ rnfstr )
                                         THEN
                                              BEGIN
                                              gca_fehler = true;
                                              gca_errcnt = .gca_errcnt + 1;
                                             .error EQL rnfmrc
                                                                       ! These two messages display an accumulated
                                             .error EQL rnfnic ) ! count of errors previously unreported.
                                         THEN
                                                                            Add their count to total counter.
                                              gca_errcnt = .gca_errcnt + .arg;
                                    line_cnt = scnmsg (CH$PTR (work_buffer), .msgtxt [.e_number], .arg, .len);
                              XIF XBLISS(BLISS32) XTHEN
                                                                                           ! Put message length into descriptor
                                    work_desc [str$h_length] = .line_cnt;
                              XF I
                                    !The line is now packed correctly, so output it to the requested places.
                                    CASE .gca_err_dir FROM report_err_none TO report_err_both Of
                                                                                 !Don't bother to output the message
                                         [report_err_none]:
                                         [report_err_file]: BEGIN
                                                                       !Report error in output file
```

ERI VO

......

```
Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERM -- funnel message to appropriate error outp 14-Sep-1984 13:06:10
ERROR
                                                                                                                    VAX-11 Bliss-32 V4.0-742 Page 15 DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (10)
V04-000
                    06339
064412
06443
06443
06447
06455
06553
0655
0655
                               %IF NOT %BLISS(BLISS32) %THEN status = $xPO_PUT (IOB
                                                                                       = .rnoiob
                                                                             ,string = (.line_cnt, CH$PTR (work_buffer)) );
   ! Add carriage control information to the end of error message status = $XPO_PUT (IOB = .rnojob
                                                                              STRING = (2, CH$PTR (UPLIT (%STRING (%CHAR ( %0'15', %0'12')))));
                               XELSE
                                                    status = emsg (.error, work_desc, true);
                               XFI
                                                    END:
                                          [report_err_std]:
                                                    BEGIN
                                                                          ! Report error on standard error log
                    0656
0657
0658
                               XIF NOT XBLISS(BLISS32) XTHEN
                                                    status = $XPO_PUT( IOB = ttejob
                                                                             ,STRING = (.line_cnt, CH$PTR (work_buffer)) );
                     0659
                               XELSE
                     0660
                                                    status = emsg (.error, work_desc, false);
                     0661
                               XF I
                                                    END:
                     0664
                     0665
                                          [report_err_both]: BEGIN
                     0666
                                                                          ! Report error both places -- output file first
                     0667
                    0668
                               XIF NOT XBLISS(BLISS32) XTHEN
                    0669
0670
0671
0672
0673
0674
0675
0677
0678
0679
0680
                                                    status = $XPO_PUT (IOB = .rnoiob
                                                                             ,STRING = (.line_cnt, CH$PTR (work_buffer)));
                                                    !Add carriage control information to the end of error message status = $XPO_PUT (IOB = .rnoiob
                                                                              STRING = (2, CH$PTR (UPLIT (%STRING (%CHAR( %0'15', %0'12')))));
                                                     !Report error on standard error log
                                                     status = $XPO_PUT (IOB = tteiob
                                                                             ,STRING = (.line_cnt, CH$PTR (work_buffer)));
                               XELSE
                                                    status = emsg (.error, work_desc, true);
                               XFI
                                                    END:
                                          TES:
    566
                                     END:
                                                                          !End of ERM
```

.EXTRN RNFBAK, RNFERD, RNFMRC .EXTRN RNFNED, RNFNIC, RNFPC1 .EXTRN RNFPCT, RNFSTR, RNFPC2 ER VO

......

ERROR V04-000 field (error) message requests from other modul 16-Sep-1984 00:25:59 VAX-11 Bliss-32 V4.0-742 Page 16 ERM -- funnel message to appropriate error outp 14-Sep-1984 13:06:10 DISK\$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (10)

							.EXTRN	RNFPC3	
		56 0 55 0 54 0 53 0	0000000G 8F 0000000G 8F 0000000G EF 00000000 EF 010E 8F FE0C C3 04 AC FFF8007 8F 08 52 58	07C0009EE0900B6013	00000 00002 00009 00010 00017		ENTRY MOVL MOVAB MOVAB	ERM, Save R2,R3,R4,R5,R6 WRNFNIC, R6 WRNFMRC, R5 GCA+196, R4 WORK_DESC, R3 #270, WORK_DESC+2 WORK_BUFFER, WORK_DESC+4 ERROR, R2 #-32761, R2, R0 #8. F. NUMBER	0524
	02 04	A3	010E 8F FEOC C3	80 9E	0001E 00024		MOVW	#270, WORK_DESC+2 WORK_BUFFER, WORK_DESC+4	0587 0589 0592
	50	52 F	FFF8007 8F	CB	00010 00017 0001E 00024 0002E 00036 00049		MOVL BICL3	#-32761, R2, R0	: 0592
	0000000G	50 8F	52 52	01	00039		DIVL2 CMPL	RZ, WRNFBAK	0595
	0000000G	8F	52 4F	D1 13	00040		BEQL	R2, #RNFERD	0596
	000000006	8F	52	D1 13	00048 00052		BEQL	RŽ, WRNFLOC	0597
		55	52 46 52 41	D1 13	00054		BEQL CMPL BEQL	R2, R5	0598
		56	52	D1 13	00059 0005C		CMPL	R2, R6	0599
	000000006	8F	52	D1 13	0005E		CMPL BEQL	R2. #RNFNED	0600
	000000006	8F	52 2A	D1 13	0005E 00065 00067 0006E 00070		CMPL BEQL	R2. WRNFPCT	0601
	00000000G	8F	53525251282 53525251282 5050014252 5050014252	D1	00070		CMPL BEQL	R2. #RNFPC1	0602
	000000006	8F	52 18	D1 13	00079		CMPL BEQL	RŽ, WRNFPC2	0603
	000000006	8F	52 0F	D1 13	00082		CMPL BEQL	RŽ, #RNFPC3	0604
	000000006	8F	52 06	D1	00088		BEQL	R2, #RNFSTR	0612
	FC	A4	01	D0 D6 D1	00094 00098 0009A 0009D		MOVL	#1, GCA+192 GCA+196	: 0615
		55	52	13	0009A	15:	BEQL	R2, R5 2\$	0619
		56	04	12	0009F 000A2 000A4		ENEQ ADDL2	3\$	0620
		7E 0	08 AC 08 AC 0000000GEF 40	CO 7D 9F FB BO CF	OOOAR	44.	MOVQ PUSHL PUSHAB	ARG, GCA+196 ARG, -(SP) MSGTXT[E_NUMBER]	0622 0624
	00000000v	EF	FEOC C3 04 50 04 A4	FB	000B7		CALLS	WURK BUFFER  #4, SCHMSG	04.37
J00D	0009	63 00 00D	04 A4 0018	CF	000AC 000B3 000B7 000BE 000C1 000C6	48:	MOVW CASEL . WORD	ARG, -(SP) MSGTXT[E NUMBER] WORK BUFFER W4, 5CNMSG LINE CNT, WORK DESC GCA+200, #0, #3 8\$-4\$,- 6\$-4\$,-	0627 0631
				04	00005		DET	5\$-4\$,- 6\$-4\$	0
			7E	04	000CE 000CF	58:	RET	-(SP)	0660
	0000000G	EF	02 01 00 03	04 11 00 88 FB	000CF 000D1 000D3 000D5 000D7	6\$: 7\$:	BRB PUSHL PUSHR CALLS	7\$ M1 M^M <r2.r3> M3, EMSG</r2.r3>	0680

ERROR V04-000 Field (error) message requests from other modul 16-Sep-1984 00:25:59 ERM -- funnel message to appropriate error outp 14-Sep-1984 13:06:10

VAX-11 Bliss-32 v4.0-742 Page 17 DISK\$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (10)

04 000DE 85:

RET

: 0687

FC!

; Routine Size: 223 bytes, Routine Base: \$CODE\$ + 00DE

: 567 0688 1

```
ERROR
                        Field (error) message requests from other modul 16-Sep-1984 00:25:59 PUTMSG -- funnel message to appropriate output 14-Sep-1984 13:06:10
                                                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                              Page
V04-000
                                                                                                                                       DISKSYMSMASTER: [RUNOFF. SRC]ERROR. BLI: 1 (11)
                                    *SBITL 'PUTMSG -- funnel message to appropriate output mechinism'
                        0689
0690
0691
0693
0693
0696
0696
0698
0699
                                    GLOBAL ROUTINE putmsg (message, arg, len) : NOVALUE =
                                       FUNCTIONAL DESCRIPTION:
                                                 This routine generates and prints the requested message.
                                                The first routine argument points to a string consisting of a string intermixed with special formatting flags which cause special actions to happen to the string when a flag is encountered. The routine SCNMSG is called to expand the message
    580
581
                                                 before it is output.
                        0701
                        0702
0703
                                       FORMAL PARAMETERS:
                        0704
0705
                                                MESSAGE - Pointer to the desired message.

ARG - Contains a value, if it is to be used with XN,

contains a pointer to a string if it is to be used with XS.
    586
587
                        0706
0707
                                                 LEN - Unused with %N, Contains the string length for %S.
                        0708
    588
589
590
591
592
593
594
595
596
                        0709
                                                 All parameters are 'pass through' parameters for SCNMSG.
                        0710
                        0711
0712
0713
                                        IMPLICIT INPUTS:
                                                                         None
                                        IMPLICIT OUTPUTS:
                                                                         None
                        0714
0715
                                       ROUTINE VALUE:
                        0716
0717
                                       COMPLETION CODES:
                                                                         None
   598
599
600
601
602
603
                        0718
0719
                                       SIDE EFFECTS:
                                                                         None
                        0720
0721
0722
0723
                                           BEGIN
                                          LITERAL
                                                 e_number_mask
                                                                         = %x'7FF8':
   604
                                           LOCAL
                                                                                                               !Size of output line
                                                 line_cnt.
   606
                                                 e_number.
                                                                                                               error number
                                                 status;
                                                                                                               !Status code returned by XPORT
    608
                        0729
0730
    609
                                    XIF XBLISS(BLISS32) XTHEN
    610
                                           ! Initialize message string descriptor:
    611
                        0732
0733
0734
0735
0736
0737
0738
   612
                                          work_desc [str$b_dtype] = str$k_dtype_t;
work_desc [str$b_class] = str$k_class_f;
work_desc [str$a_pointer] = work_buffer [0];
                                                                                                                 ASCII text (8-bit)
                                                                                                                 Scalar, String Descriptor
! First byte of char, buffer
   614
   616
617
618
620
621
623
624
625
                                           e_number = (.message AND e_number_mask) / 8;
line_cnt = scnmsg (CH$PTR (work_buffer), .msgtxt [.e_number], .arg, .len);
                        0740
                                    #IF #BLISS(BLISS32) #THEN
                                           work_desc [str$h_length] = .line_cnt;
                                                                                                              ! Put message length into descriptor
                                           !The line is now packed correctly, so output it to the terminal
```

FC VO

```
ERROR
V04-000
                               field (error) message requests from other modul 16-Sep-1984 00:25:59 PUTMSG -- funnel message to appropriate output 14-Sep-1984 13:06:10
                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 Page 19 DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (11)
                          U 0746
U 0747
U 0748
0749
0750
0751
0752
0753
                                              XIF NOT XBLISS(BLISS32) XTHEN
status = $XPO_PUT (108 = ttojob
     626
627
628
630
631
633
                                                                                           XELSE
                                                       status =
                                                                               emsg (.message, work_desc, faise);
                                                       END:
                                                                                                              !End of PUTMSG
                                                                                                                                                                PUTMSG, Save R2
WORK_DESC, R2
#270, WORK_DESC+2
WORK_BUFFER, WORK_DESC+4
#-32761, MESSAGE, R0
#8, E_NUMBER
ARG, =(SP)
MSGTXT[E_NUMBER]
WORK_BUFFER
#4, SCNMSG
LINE_CNT, WORK_DESC
-(SP)
R2
                                                                                                            0004
9E
80
9E
C6
7D
DF
FB
D4
DD
                                                                                                                     00000
                                                                                                                                                  . ENTRY
                                                                                                                                                                                                                                                            0690
                                                                                  00000000° EF

010E 8F

FE0C C2

FFFF8007 8F

08

08

000000000GEF40

FE0C C2

04

50

7E

52

04

AC

03
                                                                                                                      00002
                                                                                                                                                  MOVAB
                                                                   02
04
04
                                                                                                                      00009
                                                                                                                                                  MOVW
                                                                                                                      0000F
                                                                                                                                                  MOVAB
                                                 50
                                                                                                                      00015
0001E
                                                                                                                                                  BICL3
                                                                                                                     00021
00025
0002C
00030
00037
                                                                                                                                                  MOVQ
                                                                                                                                                                                                                                                            0738
                                                                                                                                                  PUSHL
                                                                                                                                                  PUSHAB
                                                       00000000V
                                                                                                                                                  CALLS
                                                                                                                                                                                                                                                            0741
                                                                                                                                                  MOVW
                                                                                                                                                  CLRL
                                                                                                                                                 PUSHL
PUSHL
CALLS
RET
                                                                                                                      0003C
                                                                                                                DD
                                                                                                                      0003E
                                                                                                                                                                 MESSAGE
#3, EMSG
                                                       0000000G EF
                                                                                                                FB
                                                                                                                      00041
                                                                                                                      00048
                                                                                                                                                                                                                                                            0753
```

FC.

; Routine Size: 73 bytes. Routine Base: \$CODE\$ + 01BD

634 0754 1

```
ERROR
V04-000
                                  Field (error) message requests from other modul 16-Sep-1984 00:25:59 SCNMSG -- fill in missing arguments in message 14-Sep-1984 13:06:10
                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 Page 20 DISK$VMSMASTER:[RUNOFF.SRCJERROR.BLI;1 (12)
                                                   *SBTTL 'SCNMSG -- fill in missing arguments in message string'
                                  0755
0756
0757
0758
0759
0760
0761
0762
0763
     ROUTINE schmsg (line, message, arg, len) =
                                                      FUNCTIONAL DESCRIPTION:
                                                                   This routine expands the specified message. The first routine argument is a ch$ptr to a work area where the expanded message is written to. The second routine argument points to a string consisting of a string intermixed with special formatting flags which cause special actions to happen to the string when a flag is encountered. The legal flags in the string are:
                                  0764
0765
0766
0767
0768
0769

    *S - Using the second and third call arguments place the specified string at this point.
    *N - Using the second argument only, place the specified decimal number at this point.

                                                                                                Insert the Current Output Page.
Insert the Current Output Line.
                                  0774
0775
0776
0777
                                                                                               Insert the input page number.
Insert the input sequence number.
Insert the name of the current input file.
Insert the name of the output file.
Insert the name of the old (input) .BRN file.
Insert the name of the new (output) .BRN file.
                                 0778
0779
0780
                                                                                                Insert the program version number Insert "s" if %N is other then 1.
                                                                    More than one of the above arguments can occur in a message,
                                                                    except that %S and %N are mutually exclusive and cannot occur
                                                                    in the same message.
                                 0786
0787
                                                                    An illegal flag will be interpreted as plaintext.
                                 0788
0789
0790
0791
0792
0793
                                                       FORMAL PARAMETERS:
                                                                    LINE - Ch$ptr to where the message is to be built up
                                                                   MESSAGE - Pointer to the desired message (unexpanded).

ARG - Contains a value, if it is to be used with XN,

contains a pointer to a string if it is to be used with XS.

LEN - Unused with XN, Contains the string length for XS.
                                 0794
0795
0796
0797
0798
0799
0800
                                                       IMPLICIT INPUTS:
                                                                    PAGEN
                                                                                                      - Output Page number
                                                                   PHAN LINES TP
IRAC IPAGEN
IRAC ISEQN
IRAC FSPECP
IRAC FSPECC
                                                                                                          Output Line number
                                  0801
0802
0803
0804
0805
                                                                                                          Input page number input line count
                                                                                                      - Pointer to Input file name string - Length of Input file name string
                                  0806
                                                       IMPLICIT OUTPUTS:
                                                                                                      None
                                  0807
0808
0809
                                                       ROUTINE VALUE:
                                  0810
                                                                    Returns the number of characters in the expanded message.
```

FC!

```
ERROR
                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page 21 DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (12)
                     field (error) message requests from other modul 16-Sep-1984 00:25:59 SCNMSG -- fill in missing arguments in message 14-Sep-1984 13:06:10
V04-000
                     0812
0813
0814
0815
0816
0817
0818
   ! SIDE EFFECTS:
                                                                 None
                                     BEGIN
                                     LOCAL
                                                                                                 Size of output line
String pointer to output line
Size of input line
                                           line_cnt,
                                           line_ptr.
                                           strg_cnt.
strg_ptr;
                                                                                                 !String pointer to input line
                                      Set up for processing
                                      line_ptr=,line:
                                      line_cnt=0;
                                     strg_ptr=.message;
                                      !Get input line size (length of orginial error message string)
                                      strg_cnt = CH$RCHAR_A (strg_ptr);
                                     !Now process the entire input string INCR i FROM 1 TO .strg_cnt DO
                                           BEGIN
                                           LOCAL
                                                character;
                                           character = CH$RCHAR_A (strg_ptr);
                                           IF .character NEQ %C'%'
                                           THEN
                                                                           ! Normal text characters are packed directly
                                                CH$WCHAR_A (.character, line_ptr);
line_cnt = .line_cnt + 1
                                                END
                                           ELSE
                                                                           ! Special case flag handling goes on here
                                                character = CH$RCHAR_A (strg_ptr);
                                                1=.1+1:
                                                !Process all of the alternatives
                     0850
0851
0853
0853
0854
0856
0856
0857
08661
0863
0864
                                                SELECTONE . character Of
                                                     SET
                               TIF DERPLUS THEN
                                                                           ! Input .BRN file Specification
                                                           BEGIN
                                                           BIND
                                                                file_spec_descr = brniob [iob$t_resultant] : $STR_DESCRIPTOR ();
                                                           line_cnt = .line_cnt +
                                                                           pacstr (.file_spec_descr [str$a_pointer]
    .file_spec_descr [str$h_length]
    ,line_ptr);
                                                           END:
                                XF I
                                                     EXC'B']:
BEGIN
BIND
                     0865
0866
0867
0868
                                                                           ! Output .BRN File Specification
                                                                file_spec_descr = brnoob [iob$t_resultant] : $STR_DES(RIPTOR ();
```

FC1

```
ERROR
                 Field (error) message requests from other modul 16-Sep-1984 00:25:59 SCNMSG -- fill in missing arguments in message 14-Sep-1984 13:06:10
                                                                                                VAX-11 Bliss-32 V4.0-742 Page 22 DISK$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (12)
V04-000
                 0869
0870
0871
   Line_cnt =
                                                             .line_cnt +
                                                             pacstr (.file_spec_descr [str%a pointer] .file_spec_descr [str%h_length]
                                                                     ,line_ptr);
                                                END:
                                           [%C'C']:
                                                              ! Input Sequence Number
                                                line_cnt = .line_cnt+pacbas (.irac_iseqn, line_ptr, 10);
                                                             ! Current Input File Name
                                                line_cnt = .line_cnt + pacstr (.irac_fspecp
.irac_fspecc
                                                                                 ,line_ptr);
                                           BEGIN
[#C'O']:
                 0884
                                                             ! Output File Specification
                 0885
                                                BIHD
                                                    file_spec_descr = rnoiob [iob$t_resultant] : $STR_DESCRIPTOR ();
                                               0889
                 0890
                 0891
                                                                     , (ine_ptr);
                                                END:
                 0894
                 0895
                                           [XC'1']:
                                                             ! Input Page Number
                 0896
                                                line_cnt = .line_cnt + pacbas (.irac_ipagen, line_ptr, 10);
                 0897
                 0898
                                           [%C'L']:
                                                             ! Output Line Number
                 0899
                                                line_cnt = .line_cnt + pacbas (.phan_lines_tp, line_ptr, 10);
                 0900
                 0901
                                           [XC'N']:
                                                             ! Numeric passed argument
                 0902
                                                line_cnt = .line_cnt + pacbas (.arg, line_ptr, 10);
                 0903
                 0904
                                           [XC'P']:
                                                             ! Current Output Page Number
                 0905
                                                line_cnt = .line_cnt + pacpag (pagen, line_ptr);
                 0906
                 0907
                                           [%C'S']:
                                                             ! String passed argument
                 0908
                 0909
                                                  In no case insert more than 100 characters.
                 0910
                                                              (Defensive coding.)
                 0911
                 0912
                                                0914
                                                                                 , line_ptr);
                 0916
                                           [XC'V']:
                                                             ! Insert version number of program
                 0917
0918
                                                BEGIN
                                                EXTERNAL
                                                                      Length of version number string ! CH$PTR to string
                                                    rnovrl.
                                                    rnovrp:
                                                line_cnt = .line_cnt + pacstr (.rnovrp, .rnovrl, line_ptr);
                                                END:
                                           [%C'X']:
                                                             ! Insert an "s" if %N was other then 1.
```

FCI VO4

```
ERROR
                           Field (error) message requests from other modul 16-Sep-1984 00:25:59 SCNMSG -- fill in missing arguments in message 14-Sep-1984 13:06:10
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page
DISKSVMSMASTER:[RUNOFF.SRC]ERROR.BLI;1
V04-000
    .arg NEQ 1
                                                                            THEN
                                                                                  BEGIN
                                                                                  CHSWCHAR_A (%C's', line_ptr);
line_cnt=.line_cnt+1
                                                                    [OTHERWISE]:
                                                                                                ! Unrecognized flag, treat as text
                                                                           BEGIN
                           0934
0935
0936
0937
0938
0940
0941
0942
                                                                           CHSWCHAR_A (%C'%',line_ptr);
CHSWCHAR_A (.character, line_ptr);
line_cnt = .line_cnt+2
                                                                            END:
                                                                    TES
                                                             END
                                     442221
                           0944
                                                      END:
                           0945
                           0946
                                                RETURN .line_cnt;
                                                END:
                                                                                                !End of SCNMSG
                                                                                                                                .EXTRN
                                                                                                                                             RNOVRL, RNOVRP
                                                                                               OOF C
                                                                                                                                             Save R2,R3,R4,R5,R6,R7
IRAC+8, R7
                                                                                                       00000 SCNMSG:
                                                                                                                                . WORD
                                                                                                                                                                                                                             0756
                                                                                                      00002
00009
00000
0000E
00012
00017
                                                                   57 00000000G
                                                                                                                                MOVAB
                                                                                                                                             LINE
LINE_CNT
MESSAGE, STRG_PTR
(STRG_PTR)+, STRG_CNT
                                                                                  04
                                                                                      DD
                                                                                                                               PUSHL
                                                                                                                                                                                                                             0823
                                                                                                  D4
D0
9A
                                                                                                                                                                                                                             0824
0825
                                                                                                                               CLRL
                                                                  55
56
                                                                                  08
                                                                                                                               MOVL
                                                                                                                                                                                                                             0828
                                                                                                  D4
31
9A
                                                                                                                               CLRL
                                                                                                                                                                                                                             0831
                                                                                                                                             21$
(STRG_PTR)+ CHARACTER
CHARACTER, #37
25
                                                                                                                               BRW
                                                                   53
25
                                                                                                      0001A 15:
0001D
0002D
0002C
0002C
0002C
0002E
00035
00037
00037
00039
00046
00046
00046
00046
00051
00053
00058
00058
00058
48:
                                                                                                                                MOVZBL
                                                                                                                                                                                                                             0836
0838
                                                                                                  01390
3190
0120
0120
030
                                                                                                                                CMPL
                                                                                                                               BEQL
                                                          00
                                                                   BE
                                                                                                                               MOVB
                                                                                                                                                                                                                             0841
                                                                                                                                             CHARACTER, QLINE_PTR
                                                                                                                               BRW
                                                                                                                                                                                                                             0846
                                                                   53
                                                                                                                               MOVZBL
                                                                                                                                             (STRG_PTR)+, CHARACTER
                                                                                                                                INCL
                                                00000042
                                                                                                                                                                                                                             0865
                                                                                                                                CMPL
                                                                                                                                              CHARACTER, #66
                                                                                                                               BNEQ
                                                                                                                                                                                                                             0871
0872
0871
                                                                                           SEFFC3590A67
                                                                                                                               PUSHL
                                                                                                                                             FILE_SPEC_DESCR. -(SP)
FILE_SPEC_DESCR+4
                                                                       000000006
                                                                                                                                MOVZWL
                                                                                                  DD
11
                                                                                                                               PUSHL
```

BRB

CMPL

BNEQ PUSHL

PUSHAB

PUSHL BRB

CMPL

BNEQ

PUSHL

CHARACTER, #67

CHARACTER, #70

#10

LINE PTR

IRACT8

D1 12 DD 9F

DD 11

D1 12 DD

04

00000043

00000046

8F

8F

FC1

0876

0877

0879

0880

		7E				1984 00:25 1984 13:06		-742 FF.SRCJERROR.BLI;1 (12
	00000018		08	A7 70 0006 19 11 0006	9	MOVQ BRB	IRAC+16, -(SP)	
20	0000004F	8F		53 01 0006 12 12 0007 1C C1 0007	B 58:	CMPL BNEQ_	CHARACTER, #79	088
50	000000006	EF		1C C1 0007	'C	ADDL3 PUSHL	#28, RNOIOB, RO	088 089
		7E	04	53 D1 0006 12 12 0007 1C C1 0007 5E DD 0007 60 3C 0007 A0 DD 0008 7B 11 0008	E	BNEQ ADDL3 PUSHL MOVZWL PUSHL BRB	(RO) -(SP) 4(RO)	089 089
	00000049	8F		78 11 0008	6 78:	BRB CMPL	148 CHARACTER, #73	089
				0A 12 0008	ID IF	BNEQ PUSHL PUSHAB	8\$ #10	089
			04	5E DD 0007 60 3C 0007 A0 DD 0008 7B 11 0008 53 D1 0008 0A 12 0008 0A DD 0008 AE 9F 0009 A7 DD 0009 27 11 0009 53 D1 0009	1	PUSHAB PUSHL BRB	LINE PTR IRACT12 10\$	, 00%
	00000040	8F		53 01 0009	9 88:	CMPL	CHARACTER, #76	089
			000000006	0D 12 000A 0A DD 000A AE 9F 000A EF DD 000A 11 11 000A 53 D1 000A	12	BNEQ PUSHL PUSHAB PUSHL	9\$ #10 LINE PTR PHAN+12	089
	0000004E	8F		11 11 000A 53 D1 000A	D 98:	BRB CMPL	10\$ CHARACTER, #78	090
				0A DD 000E	8	BNEQ PUSHL PUSHAB	11 <b>\$</b> #10	090
			04 00	OA DD 000E AE 9F 000E O3 FB 000C 58 11 000C	A	PUSHAB PUSHL	LINE_PTR ARG	
	00000000G	EF		03 FB 0000	0 105:	CALLS	#3 PACBAS	
	00000050	8F		AE 9F 000B AC DD 000B 03 FB 0000 58 11 0000 53 D1 0000	9 11\$:	CMPL	CHARACTER, #80	090
			00000000	5E DD 0000	2	BNEQ PUSHL	SP	090
	00000006	EF	000000006	5E DD 0000 EF 9F 0000 02 FB 0000 3E 11 000E	A	PUSHAB	PAGEN #2. PACPAG 17\$	
	00000053	8F		55 D1 000E	5 125:	BRB	CHARACTER, #83	090
				17 12 000E 5E DD 000E	Ĉ	BNEQ PUSHL	15 <b>\$</b> SP	091 091
	00000064	8F	10	5E DD 000E AC DD 000E 6E D1 000F 04 15 000F 8F 9A 000F	1	PUSHL	LEN (SP), #100 13\$ #100, (SP)	091
		6E	64	04 15 000F	8	CMPL BLEQ MOVZBL PUSHL	13\$ #100. (SP)	
			64 00	AC DD 000F	E 13\$: 1 14\$: 3 15\$:		ARG 16\$	091
	00000056	8F		53 01 0010	3 155:	CMPL	CHARACTER, #86	0910
			00000000	5E 00 0010	Ĉ	PUSHL	5P	092
	00000000		000000006 000000006	EF DD 0011	4	PUSHL	RNOVRL	
	000000006	EF 52		53 D1 0010 1A 12 0010 5E DD 0010 EF DD 0011 03 FB 0011 50 C0 0012 29 11 0012	A 168:	CMPL BNEQ PUSHL PUSHL PUSHL CALLS ADDL2	#3. PACSTR RO. LINE_CNT 21\$	
	00000058	8F		AC DD 000F 17 11 0010 53 D1 0010 5E DD 0010 EF DD 0010 EF DD 0011 03 FB 0011 50 CO 0012 29 11 0012 11 12 0012 AC D1 0013 8F 90 0013 8F 90 0013	6 185:	CMPL	CHARACTER, #88	0850 0925
		01	OC	AC D1 0012	F	BNEQ CMPL BEQL	20\$ ARG, #1	0926
	00	BE		AC 01 0012 1A 13 0013 8F 90 0013 6E 06 0013	3	BEQL	#115, aline_PTR LINE_PTR	0929

FC11 VO4-

ERROR	Field (error) mo	essage requests fro	om other modul 16-Sep-1	984 00:25:59	VAX-11 Bliss-32 V4.0-742	Page 25
V04-000	SCNMSG fill	in missing argument	ts in message 14-Sep-1	984 13:06:10	DISKSVMSMASTER:[RUNOFF.SRC]	ERROR.BLI;1 (12)
FEC5	54	00 BE 00 BE 52 01 50	52 D6 0013C 0F 11 0013E 25 90 00140 20\$: 6E D6 00144 53 90 00146 6E D6 0014A 02 C0 0014C 56 F1 0014F 21\$: 52 D0 00155 04 00158	INCL LINE	_CNT aline_ftr ptr Acter, aline_ptr ptr Eine_cnt cnt, #1, 1, 1\$ cnt, R0	0930 0926 0935 0936 0937 0838 0946

; Routine Size: 345 bytes, Routine Base: \$CODE\$ + 0206

: 829 0948 1

: E L L P (

FCI VO4

```
ERROR
                      Field (error) message requests from other modul 16-Sep-1984 00:25:59 REPORT_SECONDARY_MESSAGE -- if present, get and 14-Sep-1984 13:06:10
                                                                                                                            VAX-11 Bliss-32 V4.0-742 Page 26 DISK$VMSMASTER: [RUNOFF.SRC]ERROR.BLI;1 (13)
V04-000
                                 %SBTTL 'REPORT_SECONDARY_MESSAGE -- if present, get and output it'
ROUTINE report_secondary_message (msgcode) =
    831
833
833
834
835
837
839
                      0949
0951
0951
0953
0955
0955
0956
0966
0966
0968
                                    FUNCTIONAL DESCRIPTION:
                                             If the MSGCODE is nonzero, it identifies an error message. Capture
                                             that error message and report it using a call to ERM.
    840
                                             This secondary error message handler was implemented to get the
    841
842
843
                                             detailed reason for issuing the following error messages:
                                                   RNFCOB, RNFCOF, RNFCOI, RNFCOO, RNFCOR, RNFCOT, or RNFCOX.
    844
845
846
847
849
                                    FORMAL PARAMETERS:
                                             MSGCODE - An error message code. For the time being, we assume it's
                                                           within the scope of XPORTs error messages.
    850
                                     IMPLICIT INPUTS:
                                                                    None
                      0969
0970
    851
                                     IMPLICIT OUTPUTS:
                                                                    None
                      0971
0972
0973
   854
855
                                     ROUTINE VALUE:
   856
857
                      0974
                                             Returns TRUE if the message was there and reported.
                      0975
                                             Returns FALSE if the code was zero or otherwise not reported.
                      0976
0977
0978
0979
    858
    859
                                    SIDE EFFECTS:
                                                                    None
    860
    861
                      0980
   862
863
                                       BEGIN
                      0981
0982
0983
0984
0985
0986
0987
                                       EXTERNAL LITERAL
                                             rnfstr; ! I - "%S"
   864
865
                                       ! Initialize message string descriptor: w_desc1 [str$b_dtype] = str$k_dtype_t; w_desc1 [str$b_class] = str$k_class_f; w_desc1 [str$a_pointer] = w_buffer1 [0]; w_desc1 [str$h_length] = 130;
   866
867
                                                                                                         ASCII text (8-bit)
    868
869
870
                                                                                                         fixed (Scalar) String Descriptor
                                                                                                         First byte of char. buffer
                                                                                                        Size of buffer
                      0989
0990
0991
0992
0993
0994
0995
0998
0999
    871
   872
873
874
875
                                        IF .msgcode NEQ 0
                                       THEN
                                                        ! If there is at least something in the code,
                                             BEGIN
                                                                               ! attempt to capture the message and report it.
   876
877
878
879
                                 XIF XBLISS(BLISS32) XTHEN
                                             sys$getmsg
                                                              (.msgcode
                                                              .w_desc1 [str$h_length]
                                                              .w_desc1
    880
881
882
883
884
885
886
887
                                                               :0
                                                                               );
                       1000
                                 XELSE.
                      1001
                      1002
                                             XPO$XMSG (.msgcode, w_desc1 );
                                                                                                     ! Get message from XPORT
                                 XF I
                      1004
                                             erm (RNFSTR, .w_desc1 [str$a_pointer], .w_desc1 [str$h_length]);
```

\*\*

ERROR V04-000 : 888 : 889	Field (error) message requests from other modul 16-Sep-1984 00:25:59 VAX-11 Bliss-32 V4.0-742 REPORT_SECONDARY_MESSAGE if present, get and 14-Sep-1984 13:06:10 DISK\$VMSMASTER:[RUNOFF.SRC]ERR 1006 3 RETURN TRUE; ! Return code indicating that a 1007 3 END	OR.BLI;1 (13)
888 889 890 891 892 893	1006 3 RETURN TRUE; ! Return code indicating that a 1007 3	
	0004 00000 REPORT_SECONDARY_MESSAGE: .WORD Save R2 52 00000000' EF 9E 00002 MOVAB W_DESC1_R2	. 0050
	52 00000000' EF 9E 00002 MOVAB W_DESC1_R2 62 010E0082 8F DO 00009 MOVAB W_BUFFER1, W_DESC1 04 A2 FF7C C2 9E 00010 MOVAB W_BUFFER1, W_DESC1+4 04 AC D5 00016 TSTL MSGCODE 26 13 00019 BEQL 1\$ 7E 01 7D 0001B MOVQ #1, -(SP) 52 DD 0001E PUSHL R2 52 DD 00020 PUSHL R2	0950 0988 0987 0990
	00000000	1005
. Bautina Si	50 01 D0 0003D MOVL #1, R0 04 00040 RET 50 D4 00041 1\$: CLRL R0 04 00043 RET	1009
: Routine Si: : 894 : 895 : 896	1012 1 1013 1 END 1014 0 ELUDOM  1014 0 ELUDOM  1015 **SCODES* + 035F	
Name	PSECT SUMMARY  Bytes Attributes	
SOWNS SCODES	648 NOVEC, WRT, RD , NOEME, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) 931 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)	
:	Library Statistics Symbols Pages Processing	

FIC

E	RROR 04-000	Field (error) message requ REPORT_SECONDARY_MESSAGE -	ests from - if prese	other modent, get an	ul 16-Sep-198	34 00:25:59 34 13:06:10	VAX-11 Bliss-32 V4.0-742 Page 28 DISK\$VMSMASTER:[RUNOFF.SRC]ERROR.BLI;1 (13)
:	File		Total	Loaded	Percent	Mapped	Time
:	_\$255\$DUA28: _\$255\$DUA28:	[SYSLIB]XPORT.L32;1 [RUNOFF.SRC]DSRLIB.L32;1	590 1248	89 29	15	252 86	00:00.2

F10

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: ERROR/OBJ=OBJ\$: ERROR MSRC\$: ERROR/UPDATE=(ENH\$: ERROR)

: Size: 931 code + 648 data bytes
: Run Time: 00:19.9
: Elapsed Time: 00:53.5
: Lines/CPU Min: 3055
: Lexemes/CPU-Min: 28149
: Memory Used: 149 pages
: Compilation Complete

0341 AH-BT13A-SE

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